

IN THE CLAIMS

This listing of the claim will replace all prior versions and listings of claim in the present application.

Listing of Claims

1. (currently amended) A database management method for addressing to a commit request or a rollback request in a stored program written in an interpreted language, said method comprising the steps of:

reserving a resource at execution of a query from a the stored program of the interpreted language and keeping relational information between the reserved resource and resources already reserved in the query processing in execution having invoked the program; and

releasing, at release of a transaction from the stored program, associated ones of resources according to the relational information kept in said reserving step.

2. (currently amended) A database management method for use in a relational database system for addressing to a commit request or a rollback request in a stored program written in an interpreted language (JAVA), said method comprising the steps of:

reserving a resource at execution of a query from a the stored program of an interpreted language and keeping relational information between the reserved resource and resources already reserved in the query processing in execution having invoked the program; and

releasing, at release of a transaction from the stored program, associated ones of resources according to the relational information kept in said reserving step.

3. (currently amended)A database management method for addressing to a commit request or a rollback request in a stored JAVA program-written in an interpreted language, said method comprising the steps of:

analyzing a query request inputted thereto and generating an execution module;

checking, when a the stored JAVA program which is not contained in the execution module and which is beforehand stored in a database management system (DBMS) is invoked at execution of the execution module unknown resources to be used by the program and determining resources to be set as resources unavailable to a thirdanother program until a transaction is completed and resources to be set as unavailable resources until the program is terminated; and

releasing, in response to an input of a transaction completion request or issuance of a commit statement from the program, the resources set as unavailable resources until the transaction is completed in the stored program of a third person.

4. (currently amended)A database management method according to claim 1, further comprising the step of:

releasing the resources set as unavailable resources until the program is terminated.

5. (currently amended)A database management apparatus for addressing to a commit request or a rollback request in a stored program written in a different-type-of heterogeneous language to a database language or an interpreted language, comprising:

means for reserving a resource at execution of a query from a stored program of the interpreted language and keeping relational information between the, reserved resource and resources already reserved in the query processing in execution having invoked the program; and

means responsive to said reserving means for releasing, at release of a transaction from the stored program, associated ones of resources according to the relational information kept in said reserving means.

6. (currently amended)A database management apparatus in a relational database system for addressing to a commit request or a rollback request in a stored program written in a different-type-of heterogeneous language to a database language or an interpreted language (JAVA), comprising:

means for reserving a resource at execution of a query from a stored program of an interpreted language and keeping relational information between the reserved resource and resources already reserved in the query processing in execution having invoked the program; and

means responsive to said reserving means for releasing, at release of a transaction from the stored program, associated ones of resources according to the relational information kept in said reserving means.

7. (original) A database management apparatus for addressing to a commit request or a rollback request in a stored program written in an interpreted language, comprising:

means for analyzing a query request inputted thereto and generating an execution module;

means for checking, when a JAVA program which is not contained in said execution module and which is beforehand stored in a database management system (DBMS) is invoked at execution of said execution module, unknown resources to be used by the program, and determining resources to be set as resources made unavailable until a transaction is completed and resources to be set as resources unavailable to a third program until the program is terminated; and

means operable with said checking and determining means, for releasing, in response to an input of a transaction completion request or issuance of a commit statement from the program, the resources set as resources made unavailable until the transaction is completed in the program of a third person.

8. (original) A database management method according to claim 5, further comprising means for releasing the resources set as unavailable resources until the program is terminated.

9. (currently amended) A computer-executed program for implementing a database management method for addressing to a commit request or a rollback

request in a stored program written in a different type of heterogeneous language to a database language or an interpreted language, said method comprising the steps of:

reserving a resource at execution of a query from a stored program of the interpreted language and keeping relational information between the reserved resource and resources already reserved in the query processing in execution having invoked the program; and

releasing, at release of a transaction from the stored program, associated ones of resources according to the relational information kept in said reserving step.

10. (original) A computer-executed program for implementing a database management method in a relational database system for addressing to a commit request or a rollback request in a stored program written in an interpreted language (JAVA), said method comprising the steps of:

reserving a resource at execution of a query from a stored program of an interpreted language and keeping relational information between the reserved resource and resources already reserved in the query processing in execution having invoked the program; and

releasing, at release of a transaction from the stored program, associated ones of resources according to the relational information kept in said reserving step.